

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IL2004/000573

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H01L31/101

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PARK J ET AL: "Reduction of dark current in an n-type In <sub>0.3</sub> Ga <sub>0.7</sub> As/GaAs quantum well infrared photodetector by using a camel diode structure" SOLID STATE ELECTRONICS, ELSEVIER SCIENCE PUBLISHERS, BARKING, GB, vol. 46, no. 5, May 2002 (2002-05), pages 651-654, XP004346693 ISSN: 0038-1101	1,2,5, 20,22-25
Y	the whole document  ----- -/--	7,12,16, 36,38-40

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*Z\* document member of the same patent family

Date of the actual completion of the international search

4 November 2004

Date of mailing of the international search report

12/11/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WATANABE I ET AL: "Extremely low dark current InAlAs/InGaAlAs quaternary well superlattice APD" PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON INDIUM PHOSPHIDE AND RELATED MATERIALS. NEWPORT, APR. 21 - 24, 1992, NEW YORK, IEEE, US, vol. CONF. 4, 21 April 1992 (1992-04-21), pages 246-249, XP010058406 ISBN: 0-7803-0522-1	26,27, 30,32
Y	the whole document	7,12,16, 36
Y	----- WO 02/084740 A (EPIR LTD) 24 October 2002 (2002-10-24) the whole document	38-40
A	----- US 4 740 819 A (KAWATA MASAHIKO ET AL) 26 April 1988 (1988-04-26) the whole document	1-37
A	----- US 6 117 702 A (KYOZUKA SHINYA ET AL) 12 September 2000 (2000-09-12) the whole document	1-37

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IL2004/000573

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 02084740	A	24-10-2002	US	2003160172 A1	28-08-2003
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US 4740819	A	26-04-1988	JP	1733425 C	17-02-1993
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